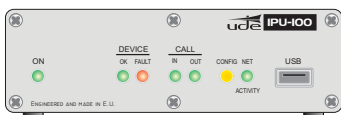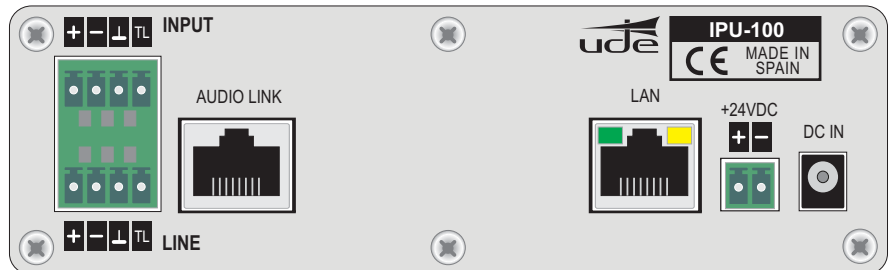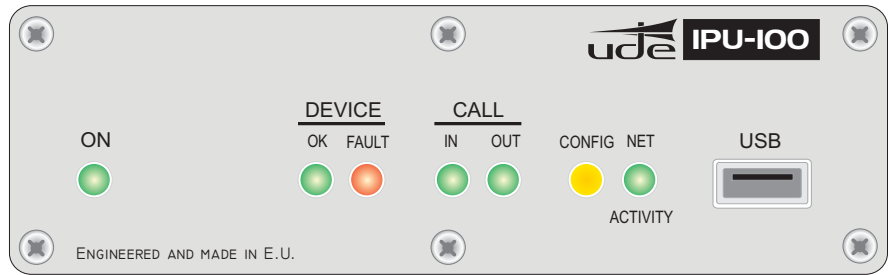# IPU-100

ude

ENCODER / DECODER AUDIO MANAGER

The public address system for IP networks allows the creation of conventional PA, allowing interconnecting with IP devices following SIP standards. UNION DESARROLLOS ELECTRONICOS also offers the **IPU-360 SIP server** that will centralize and coordinate all communication of IP paging elements ensuring maximum functionality of all of them, with minimal risk.

The **IPU-100** has included many functions within the same device: encoder, decoder and audio manager.
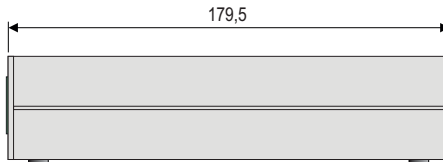
With these functions allow the user to:

- Connect to conventional amplifiers through the audio output.
- Connect to an IP Paging Desk controller (IPU-100P)
- Connect an audio source to the IP network.
- Connect a microphone with or without phantom power for simple messaging to the IP network.

The decoder **IPU-100** becomes the key element to ensure compatibility with all devices of the UDE public address, so that your microphone or auxiliary input allow can be connected to the telecommunications networks.
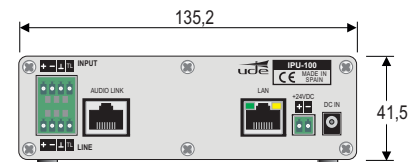
- ☑ Differential Microphone input with sensitivity of 2mV, optional 12VDC phantom power.
- ☑ Audio Line input with sensitivity of 300mV for Background Music devices.
- ☑ POE (Power Over Ethernet) through LAN connector.
- ☑ G.711, G722 and PCM audio encoding and decoding.
- ☑ Power ON led indicator.
- ☑ USB 2.0 for firmware update.
- ☑ +24 VDC power supply.
- ☑ 100% WIFI compatible.

ude **IPU-IOO**

ON — DEVICE (OK FAULT) — CALL (IN OUT) — CONFIG NET — USB — ACTIVITY — ENGINEERED AND MADE IN E.U.

INPUT — AUDIO LINK — LINE — ude **IPU-100** CE MADE IN SPAIN — LAN — +24VDC — DC IN

179,5

135,2

41,5

FRONT VIEW

SIDE VIEW

BACK VIEW

IPU-IOO

Optional peripherals: - **IPW-25**: 24 VDC power supply.
- **IPW-10**: Wall mount clamp.
- **IPW-13**: Storage 19" rack tray.

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EQUIPOS Y SISTEMAS MEGAFONÍA / INTERCOM ● PUBLIC ADDRESS SYSTEMS

UNIÓN DESARROLLOS ELECTRÓNICOS

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ISO 9001 BUREAU VERITAS Certification

www.udeaudio.com

rev.1 | 610.432A | 1 / 2

QUICK START GUIDE

ude IPU-100

ON

DEVICE
OK FAULT

CALL
IN OUT

CONFIG NET

ACTIVITY

USB

Engineered and made in E.U.

FRONT VIEW

| 1 | 6 | 7 | 4 | 5 | 3 | 2 | 8 |

INPUT
+ − ⊥ TL

AUDIO LINK

ude IPU-100
CE MADE IN SPAIN

LAN

+24VDC
+ −

DC IN

+ − ⊥ TL **LINE**

REAR VIEW

| 13 | 14 | 12 | 11 | 10 | 9 |

DEVICE CONFIGURATION (WEBSERVER)

The **IPU-100** configuration is done by accessing to the IP address assigned to the device by the site administrator if you work in Manual mode assignment (Static Mode), or by the DHCP server if you work in automatic mode.
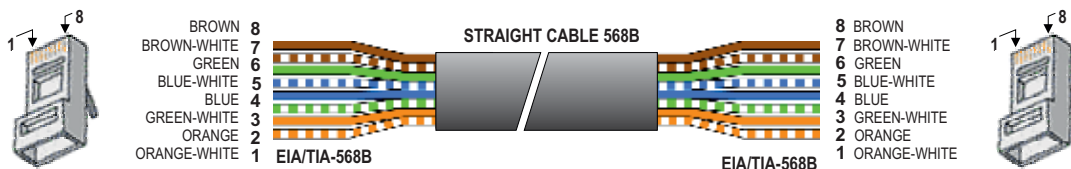**Static IP by default is: 192.168.0.210**

DESCRIPTION CONNECTIONS AND INDICATORS

1 **LED ON**. This indicator shows that the equipment is properly powered and that the main application is running.

2 **LED NET ACTIVITY**. This indicator shows the data activity when is connected to an Ethernet LAN. When you receive IP packets should be the LED blinking.

3 **LED CONFIG**. This indicator shows that session of configuration (Setup) by Webserver is open.

4 **LED CALL IN**. This indicator is set when an incoming call is received and accepted.

5 **LED CALL OUT**. This indicator is activated when the IPU-100 device is a call generator.

6 **LED DEVICE OK**. This indicator is activated when exists a right register process with the server.

7 **LED DEVICE FAULT**. This indicator is activated when there is a connection problem with the server.

8 **CONECTOR USB**. The USB port allows firmware update.

9 **DC IN**. This connector allows us to power the device using a 24Vdc external power supply (model: I**PW-25**).

24 VDC + − ⊕⊖

10 **+24 VDC**. The terminal allows IPU-100 connection to a battery backup system to prevent the system fails during a primary power failure.

11 **LAN**. The LAN port allows the connection of the IPU-100 to the IP network. It supports automatically low and improved speed networks.
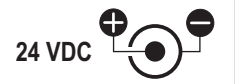
> ℹ **CAUTION:** The IPU-100 only can process non fragmented IP network packet.

12 **AUDIO LINK**. This connector allows connection of an IPU-100P or allows the expansion and control of external devices. The cable should be category 5e or 6 with a RJ-45 plug.

		STRAIGHT CABLE 568B		
BROWN	8		8	BROWN
BROWN-WHITE	7		7	BROWN-WHITE
GREEN	6		6	GREEN
BLUE-WHITE	5		5	BLUE-WHITE
BLUE	4		4	BLUE
GREEN-WHITE	3		3	GREEN-WHITE
ORANGE	2		2	ORANGE
ORANGE-WHITE	1	EIA/TIA-568B	1	ORANGE-WHITE

EIA/TIA-568B

13 **INPUT**. This euroblock allows the connection of an external audio input, being an auxiliary LINE source or an external microphone with the possibility to power it with 12VDC of phantom power (activated from the Webserver).

14 **LINE**. This euroblock allows is an audio output port (LINE OUT type) coming from the incoming call via IP networks, which connects to an external amplifier. The audio is UNBALANCED.

INPUT + − ⊥ TL

13
+ MIC/LINE IN+
− MIC/LINE IN-
⊥ 0V (GND)
TL REMOTE IN (TL)

14
+ LINE OUT+
− LINE OUT- (GND)
⊥ 0V (TL)
TL REMOTE OUT (TL)

LINE + − ⊥ TL